



Arizona Department of Transportation

ROADWAY ENGINEERING GROUP

MEMORANDUM

To: Roadway Design Personnel
ADOT and Consultants

Date: June 9, 2000

From: Terry H. Otterness
Design Program Manager
Roadway Design Section

Subject: ET-2000 PLUS
Guard Rail End Terminal
New Lighter Weight Extruder Head

The Manufacturer of the ET-2000 LET, Trinity Industries, Inc., has made an improvement to the extruder head by decreasing the weight by approximately 100 pounds. The new extruder has been named the ET-2000 PLUS and the revised terminal has received approval through the ADOT Pride Program for use. The ET-2000 PLUS is an approved NCHRP Test Level 3 device, the same as the ET-2000 LET. No other changes are required except the size of the reflector face sheeting; the PLUS extruder is fully interchangeable with the LET extruder.

Tom Scheck is sending out copies of the new Manufacturer's Approved Drawing to the Districts. The drawing is available from Tom at 602-712-8674.

The ET-2000 PLUS should be utilized in the design plans for all new projects. The barrier summary sheet has been revised to show the ET-2000 PLUS alternate. Special Provisions will be required until revisions can be made to a) Stored Specification 905GRDRL and b) Traffic Std. 4-M-10.04 which shows the reflectorized sheeting for the head.

Districts may request that the contractor supply the ET-2000 PLUS in lieu of the ET-2000 LET on projects that have been bid. There will be a savings in materials cost.

Maintenance forces may continue to utilize existing supplies of the ET-2000 LET since it is still an approved terminal. Trinity has committed to working with ADOT Maintenance to replace damaged ET-2000 PLUS and ET-2000 LET extruder heads that cannot be reused when resulting from design hits. Design hits are passenger vehicles including $\frac{3}{4}$ ton pickup trucks and vans but do not include large trucks, busses, etc.

Please distribute this memo to design personnel, project managers, and other affected personnel within your respective groups.

Questions may be directed to Tom Scheck or me at 602-712-7341.

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